

Zytel® 73G50HSLA BK416

NYLON RESIN
DuPont Performance Polymers

Message:
50% Glass Reinforced, Heat Stabilized, Polyamide 6

General Information				
Filler / Reinforcement		Glass Fiber,50% Filler by Weight		
Additive		Heat Stabilizer		
		Lubricant		
		Mold Release		
Features		Heat Stabilized		
		Lubricated		
Agency Ratings		UL Unspecified Rating		
Forms		Pellets		
Processing Method		Injection Molding		
Multi-Point Data		Coefficient of Thermal Expansion vs. Temperature (ISO 11403-1)		
		Isothermal Stress vs. Strain (ISO 11403-1)		
		Secant Modulus vs. Strain (ISO 11403-1)		
		Shear Stress vs. Shear Rate (ISO 11403-1)		
		Specific Volume vs Temperature (ISO 11403-2)		
		Tensile Modulus vs. Temperature (ISO 11403-1)		
		Viscosity vs. Shear Rate (ISO 11403-2)		
Part Marking Code (ISO 11469)		>PA6-GF50<		
Resin ID (ISO 1043)		PA6-GF50		
Physical	Dry	Conditioned	Unit	Test Method
Density	1.58	--	g/cm ³	ISO 1183
Molding Shrinkage				ISO 294-4
Across Flow	0.60	--	%	
Flow	0.30	--	%	
Water Absorption				ISO 62
23°C, 24 hr, 2.00 mm	4.5	--	%	
Equilibrium, 23°C, 2.00 mm, 50% RH	1.4	--	%	
Viscosity Number	135	--	cm ³ /g	ISO 307
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	15500	12000	MPa	ISO 527-2

Tensile Stress (Break)	233	170	MPa	ISO 527-2
Tensile Strain (Break)	2.2	3.3	%	ISO 527-2
Tensile Creep Modulus				ISO 899-1
1 hr	--	9400	MPa	
1000 hr	--	7300	MPa	
Flexural Modulus	14300	11100	MPa	ISO 178
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength				ISO 179/1eA
-30°C	19	18	kJ/m ²	
23°C	21	22	kJ/m ²	
Charpy Unnotched Impact Strength				ISO 179/1eU
-30°C	100	90	kJ/m ²	
23°C	100	100	kJ/m ²	
Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature				
0.45 MPa, Unannealed	219	--	°C	ISO 75-2/B
1.8 MPa, Unannealed	212	--	°C	ISO 75-2/A
Vicat Softening Temperature	215	--	°C	ISO 306/B50
Melting Temperature ¹	219	--	°C	ISO 11357-3
CLTE				ISO 11359-2
Flow	1.5E-5	--	cm/cm/°C	
Transverse	1.0E-4	--	cm/cm/°C	
Electrical	Dry	Conditioned	Unit	Test Method
Surface Resistivity	--	5.0E+12	ohms	IEC 60093
Comparative Tracking Index	380	--	V	IEC 60112
Flammability	Dry	Conditioned	Unit	Test Method
	HB			
Flammability Classification (1.50 mm)	HB	--		IEC 60695-11-10, -20
Fill Analysis	Dry	Conditioned	Unit	
Melt Density	1.24	--	g/cm ³	
Specific Heat Capacity of Melt	2050	--	J/kg/°C	
Thermal Conductivity of Melt	0.26	--	W/m/K	
NOTE				
1.	10°C/min			

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